

APPENDIX A
MANUFACTURERS DATA FORM AND CHECKLIST

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1. What process units are included in your preliminary and primary treatment system?

- A ☐ Screening
 B ☐ Grit Removal
 C ☐ Primary sedimentation
 D ☐ Other, specify _____.

2. What process units are included in your secondary treatment?

- A ☐ Aeration basin
 B ☐ Aerated lagoon
 C ☐ Trickling filter
 D ☐ Intermediate Clarifiers
 E ☐ Rotating biological contactors
 F ☐ Final clarifiers
 G ☐ Other, specify _____.

3. What process units are included in your tertiary treatment?

- A ☐ Filtration
 B ☐ Polishing pond
 C ☐ Other, specify _____.

4. Are you using any chemicals at your WWTP? Check the appropriate chemicals and process units from this list.

	Primary	Secondary	Tertiary	Sludge
Alum salts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ferrous/ Ferric iron	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Anionic polymer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cationic polymer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	_____			

5. What process units are included in your sludge treatment?

- A ☐ Gravity thickener ☐ batch ☐ continuous
 B ☐ Thickener centrifuge _____ hours operation daily
 C ☐ Anaerobic digester
 D ☐ Dissolved air flotation _____ hours operation daily
 E ☐ Aerobic digester
 F ☐ Belt filter press _____ hours operation daily
 G ☐ Sludge drying beds
 H ☐ Other, _____

6. Where do the underdrains and overflows of sludge treatment units discharge? If all return streams do not discharge to the same place, specify source and discharge point.

- A ☐ To primary influent
- B ☐ To secondary influent
- C ☐ Other part of process

7. How do you remove sludge from primary and secondary treatment?

- A ☐ Sludge is removed continuously with a timer set pump
How long is the pump cycle? _____
How many cycles in an hour? _____
- B ☐ Sludge is removed at certain time of the day.
The total time per day is _____ hours, starting at _____.
- C ☐ Sludge is removed weekly, specify the days _____.
- D. ☐ Other, _____.

8. How do you remove the digester supernatant?(if you have a digester)

- A ☐ Continuous flow basis
- B ☐ Daily at certain time of the day. What is the time _____.
- C ☐ During certain days of the week. Specify the days _____.
- D ☐ Other, _____.

9. If you have an aeration basin, in your present process what is the average Solids Retention Time and solids concentration (MLSS) in the basin?

_____ SRT, days
_____ MLSS, mg/l

10. Please state your plant flows

	[] mgd Present	[] m ³ /day Design
Avg daily	_____	_____
Max daily	_____	_____
Max hourly	_____	_____

11. At what time does the daily peak flow occur at your plant?

- A ☐ Before 8 AM
B ☐ Between 8 AM and 9 AM
C ☐ Between 9 AM and 10 AM
D ☐ Between 10 AM and 11 AM
E ☐ Between 11 AM and 12 PM
F ☐ Other, _____.

12. Is your plant a Sequencing Batch Reactor (SBR)?

- ☐ Yes
☐ No

13. If yes, what is the decant rate?

_____ MGD

14. What is the pH of the influent/effluent wastewater?

	Normal	Max	Min
Influent	_____	_____	_____
Effluent	_____	_____	_____

15. What is the temperature (°C) of the influent and effluent wastewater?

	Normal	Max	Min
Influent	_____	_____	_____
Effluent	_____	_____	_____

16. Do you measure the turbidity of your effluent wastewater?

- A ☐ No
B ☐ Yes, the average turbidity is _____ NTU units.

17. What is the average hardness of the tap water in your service area?

_____ as CaCO_3 , mg/l

18. What is the average monthly concentration of the following parameters in your plant influent?

SS _____ mg/l [] Not measured
BOD₅ _____ mg/l [] Not measured
COD _____ mg/l [] Not measured
Grease _____ mg/l [] Not measured

19. What is the average monthly concentration of the following parameters in your plant effluent?

SS _____ mg/l [] Not measured
BOD₅ _____ mg/l [] Not measured
COD _____ mg/l [] Not measured
Grease _____ mg/l [] Not measured

20. Do you measure the UV transmission of your effluent?

A [] Yes
B [] No

21. Are there any major industrial wastewater sources that discharge to your sewer system?

A [] YES
B [] NO

22. If you answered yes to the previous questions, what are the main types of industry and what are their daily discharges?

1. _____ [] MGD [] m³/day
2. _____ [] MGD [] m³/day
3. _____ [] MGD [] m³/day
4. _____ [] MGD [] m³/day

23. Is there any water treatment plant backwash water or sludge discharged to your sewer system?

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A ☐ No

B ☐ Yes, what kind of discharge?(what chemicals used)

24. What is the effluent coliform criteria in your wastewater treatment permit?

A ☐ 200 Fecal coliforms/100ml,
30-day geometric mean

B ☐ 1000 Fecal coliforms/100ml, 30-day geometric mean

C ☐ Other: _____

25. How often do you analyze the fecal coliform bacteria of effluent wastewater?

A ☐ Daily

B ☐ Weekly, how many times a week? _____

C ☐ Other: _____

26. How many Fecal Coliform analyses do you make per month?

27. At what time do you normally grab the bacteria sample?

A ☐ Before 8 AM

B ☐ Between 8 AM and 9 AM

C ☐ Between 9 AM and 10 AM

D ☐ Between 10 AM and 11 AM

E ☐ Other, _____.